



Triphane Triangle

by Arya Akhavan (August 2013)

Angles for R.I. = 1.650

58 + 12 girdles = 70 facets

3-fold, mirror-image symmetry

96 index

$L/W = 1.071$ $T/W = 0.198$ $U/W = 0.172$

$P/W = 0.459$ $C/W = 0.164$

$Vol./W^3 = 0.185$

PAVILION

P1	47.04°	02-30-34-62-66-94	Cut to centerpoint.
G1	90.00°	03-29-35-61-67-93	Set stone size.
P2	49.05°	06-26-38-58-70-90	Cut to 50% of P1.
P3	66.14°	03-29-35-61-67-93	Level girdle.
P4	64.99°	01-31-33-63-65-95	Meet P1, P2, P3
G2	90.00°	01-31-33-63-65-95	Level girdle.
P5	44.53°	96-32-64	Meet P1, P4

CROWN

C1	33.22°	01-31-33-63-65-95	Set girdle width.
C2	33.22°	03-29-35-61-67-93	Level girdle.
C3	32.16°	96-32-64	Meet G2, C1
C4	31.82°	02-30-34-62-66-94	Meet G1, G2, C1, C2
C5	20.37°	03-29-35-61-67-93	Meet C2, C4; C1, C3, C4
C6	20.01°	96-32-64	Meet C1, C3, C4, C5
T	0.00°	Table	Meet C5, C6

For some reason, I really like putting triangles inside of triangles, and building triangles from other triangles. I also wanted a more complicated version of the pavilion from "Triforce", so I put this design together. Works in materials from beryl to CZ (RI = 1.58 - 2.16) with no changes, but I prefer it in triphane (light yellow spodumene). Suggested size = 8-20 mm

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